

# Godfred Awudi

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## EDUCATION

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### Kwame Nkrumah University of Science and Technology

*Bachelor of Science in Telecommunication Engineering*

Kumasi, Ghana

2020 - 2024

### Kibo School of Technology

*Bachelor of Science in Computer Science*

New York, Remote

2022 - 2024

### ALX Africa

*Software Engineering*

Kenya, Remote

2023 - 2024

## WORK EXPERIENCE

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### Cybersecurity Research Assistant

*Kwame Nkrumah University of Science and Technology*

September 2024 – April 2025

*Kumasi, In-Person*

- Identified and reported 12+ critical vulnerabilities in the university url subdomains, enabling timely remediation and strengthening network security posture.
- Conducted server room assessments across 8+ university departments, enhancing IT compliance and reducing security risks.
- Updated IT operational documentation and audit compliance reports, enhancing standardization across 4 major systems.

### AI Software Engineering Fellow

*Headstarter*

July 2024 - September 2024

*Long Island, NY, Remote*

- Engineered an AI chatbot using Retrieval-Augmented Generation, with Pinecone and Gemini, automating FAQ responses and reducing manual support workload by 60%.
- Built a web scraper, integrated LangChain, improving RAG accuracy by 22% and reducing irrelevant responses.
- Participated in weekly sessions with engineers from Google and Amazon, strengthening code review, debugging, and engineering best practices.

### Data Visualization Associate

*Excelerate*

June 2024 - July 2024

*Dubai, AE, Remote*

- Analyzed user demographics and engagement data across 5+ regions uncovering key trends that informed product strategies.
- Presented a comprehensive Google Data Studio dashboard to senior management, increasing visibility into reward engagement.
- Collaborated with the data team to deliver key insights on engagement metrics that influenced campaign targeting and retention efforts.

### Data Analyst Intern

*Solar Taxi*

September 2023 - December 2023

*Laterbiokoshie, Accra, In-Person*

- Developed a forecasting model on Ghana's energy mix by applying data modeling principles which projected an 81.53% reliance on non-renewables by 2035 which guided Solar Taxi's future initiatives.
- Analyzed 150+ surveys on electric vehicle adoption directly influencing strategic policy and operational planning.
- Delivered key insights in executive reports helping operational teams optimize planning and resource allocation by a 20% increase.

### Software Engineering Intern

*CodeDay Labs*

June 2023 - August 2023

*California, Remote*

- Resolved the "Switching to Background then Main" bug in the NewPipe open source project leading to improved user experience and functionality contributing to 20,000+ daily users.
- Identified and resolved the "remove what's new feed from database export" bug by addressing 2+ github issues related to backup configurations in the NewPipe app.
- Applied Agile methodologies and Git workflows to deliver project milestones 1 week ahead of sprint deadlines in a distributed dev team.

## PROJECTS

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### **Snort SIEM Monitoring Lab** | *Security, Monitoring, Linux*

- Engineered a custom SIEM dashboard and Snort log parser to streamline threat detection by reducing alert noise and improving triage speed.
- Enabled faster incident response by correlating related events in real time.

### **Facial Recognition Auth for Banking Apps** | *Security, Mobile App*

- Designed and deployed a biometric authentication system for banking applications to reduce sole reliance on password-based logins
- Demonstrated stronger multi-factor authentication (MFA) protection over conventional login systems in production environments.

### **Spark AI (Winner - Google Hackathon)** | *AI, Low-Code*

- Built a low-code AI application integrating Gemini AI API for text generation and Stability AI API for text-to-image generation.
- Awarded "Most Impressive Low Code Implementation" for effective delivery and innovation.

### **Helpa (MLH Hackathon)** | *Web Dev, Team Project*

- Developed a job search platform using Velo by Wix during a hackathon with a limited time frame of 18 hours.
- Collaborated in a fast-paced team environment to brainstorm, prototype, and deploy a functional MVP aligned with social needs.

### **SafeSpace (A Mental Wellness Web Application)** | *Web Dev, Team Project*

- Implemented interactive frontend features using HTML, CSS, and JavaScript to enhance user interaction.
- Optimized codebase to reduce app loading time by 25%, improving overall performance.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Bash, SQL, C, TypeScript

**Frameworks:** React, Node.js, Flask

**Developer Tools:** Git, GitHub, GitHub Actions, Docker, Grafana, Google Cloud Platform, Wireshark, Visual Studio, PyCharm, IntelliJ, Linux (Ubuntu/Kali)

**Project Management:** Agile, Trello, Slack, Notion

## RELEVANT COURSEWORK

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Computer Networking, Operating Systems, Data Structures and Algorithms, Database Systems and Management, Cloud Computing Fundamentals, Frontend Development, Backend Development

## CERTIFICATIONS AND HONORS

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Google Cloud Cybersecurity Certificate

Google AI Hackathon – Winner: Most Impressive Low Code Implementation

Harvard Aspire Institute Leadership Fellow

DCA DataCamp Scholar

KNUST Energy Efficiency Internship Certificate